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Search	Most Recent Queries	Time	Result
#27	Search **#24 and apoptotic bodies**	16:55:46	0
#24	Search **bolton AE**	16:54:08	76
#22	Search **cytokine disorder and chf**	16:25:20	51
#21	Search **cytokine disorder**	16:25:13	5164
#19	Search **congestive heart failure and th1 diseases**	15:00:20	3
#18	Search **congestive heart failure and th1 diseaes**	15:00:18	0
#15	Search **"The British journal of dermatology"[Jour] AND 131[volume] AND 354[page] AND 1994[pdat] AND Kondo[first author]**	14:10:29	1
#12	Search **yamaoka m**	12:22:01	186
#10	Search **congestive heart failure and th2 cytokines**	11:51:36	8
#8	Search **congestive heart failure and cytokines**	11:50:58	1320
#6	Search **"The Journal of investigative dermatology"[Jour] AND 103[volume] AND 811 [page] AND 1994[pdat] AND Kondo[first author]**	11:39:47	1
#5	Search **kondo and 1994**	11:39:10	755
#4	Search **#3 AND apoptotic bodies**	09:05:15	10
#3	**Related Articles** for **PubMed** (Select **15242875**)	09:04:50	202
#1	Search **apoptotic bodies AND endothelial cells**	09:04:06	58

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Mar 6 2006 06:34:02

1: Clin Sci (Lond). 2006 Jan 10; [Epub ahead of print] Related Articles, Links

Clinical Science

Increased systemic inflammation and oxidative stress in patients with worsening congestive heart failure: improvement after short-term inotropic support.

White M, Ducharme A, Ibrahim R, Whittom L, Lavoia J, Guertin MC, Racine N, He Y, Yao G, Rouleau JL, Schiffrin EL, Touyz RM.

In the present study we evaluated circulating proinflammatory mediators and markers of oxidative stress in patients with decompensated congestive heart failure (CHF) and assessed whether clinical recompensation by short-term inotropic therapy influences these parameters. Patients with worsening CHF (n=29, aged 61.9+/-2.7 years), NYHA class III-IV, and left ventricular ejection fraction=23.7+/-1.8%, were studied. Controls comprised age-matched healthy volunteers (n=15, 54.1+/-3.2 years). Plasma levels of cytokines (IL-6, IL-18), chemokines (MCP-1), adhesion molecules (soluble ICAM (sICAM), soluble E-selectin (sE-selectin)), systemic markers of oxidation (thiobarbituric acid-reactive substances (TBARS), 8-epi-prostaglandin F 2alpha, nitrotyrosine) and highly-sensitivity C-reactive protein (hs-CRP) were measured by ELISA and colorimetric assays at admission and 30 days following 72-hours milrinone (n=15) or dobutamine (n=14) infusion. Plasma IL-6, IL-18, sICAM, E-selectin, CRP and oxidative markers were significantly higher in patients on admission before inotropic treatment versus controls ($P<0.05$). Short-term inotropic support improved clinical status as assessed by NYHA classification and by the 6-minute walk test and significantly decreased plasma levels of IL-6, IL-18, sICAM, CRP and markers of oxidation ($p<0.05$) at 30 days. Milrinone and dobutamine effects were similar. Our results demonstrate that patients with decompensated CHF have marked systemic inflammation and increased production of oxygen free radicals. Short-term inotropic support improves functional status and reduces indices of inflammation and oxidative stress in patients with decompensated CHF.

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